

POWER-to-DESIGN MANIFOLDS

MDTools 945 What's New





MDTools® 945 - What's New

User Interface Improved

Re-organized Ribbon Menu

Context Flyout

Energy Efficient Design

Energy Efficient Connections

Energy Efficient Construction Port

Check for Velocity Hot Spots in Blocks

Energy Efficient Smooth Bends

Integrated Browser

Cavity Library Integrated within the Browser

Cavity Browser Enhanced

Connectivity Browser Enhanced

New Interactive Functionality

Stretch Block

Stretch and Incline Drill

Move Cavity or Footprint - Dragging

New Checking Functionality

Wall thickness Check - Consolidated

Miscellaneous

Mounting Holes with Preview

Set Manufacturing Precision

HyDraw to MDTools Integration

Port Info Captured thro' Schematic Interface

Recap

Contact VEST



User Interface Improved

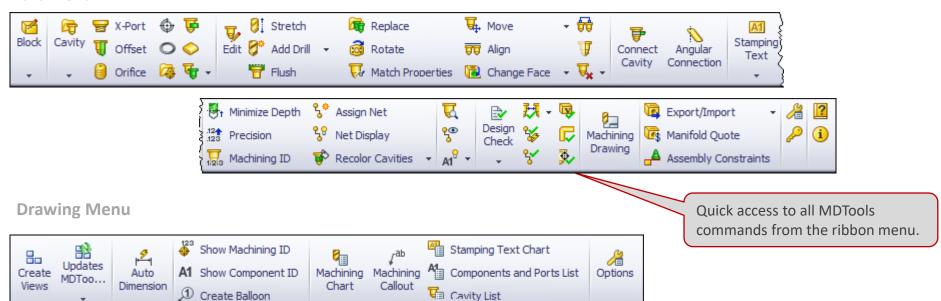




Re-organized Ribbon Menu



Part Menu



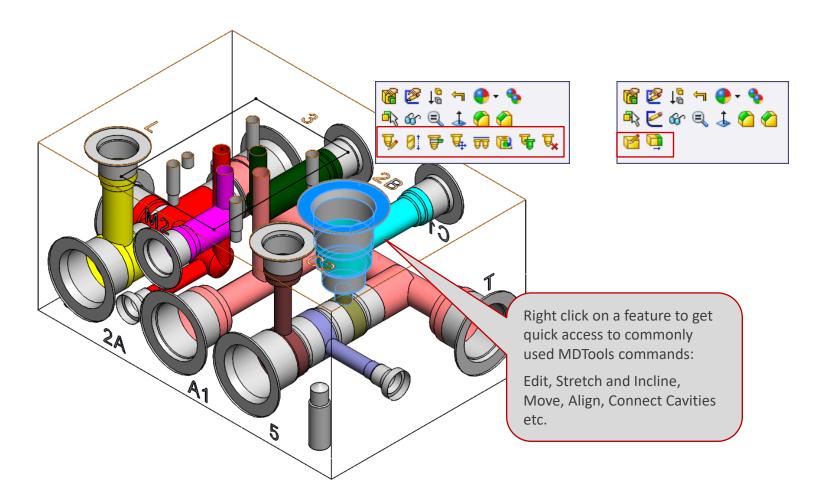
Assembly Menu



Note: Drop-down Menu also available

Context Flyout





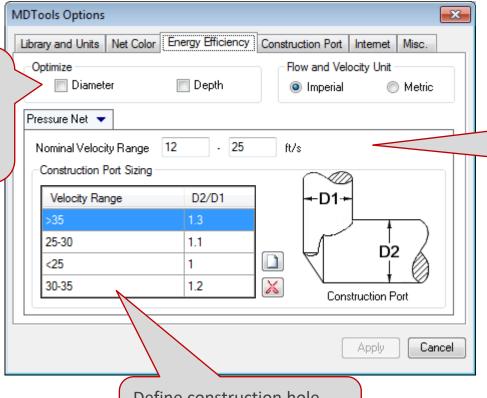
Energy Efficient Design



Energy Efficient Connections



Setup MDTools to optimize Diameter and Depth, when making connections and inserting construction ports



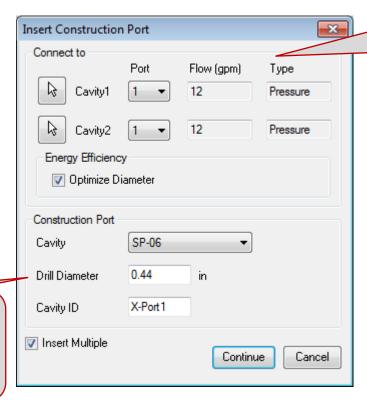
Define nominal velocity range of oil flow for tank and pressure connections

Define construction hole upsizing ratio, for different velocity ranges

Energy Efficient Construction Port







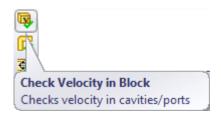
Smart Construction Port selection, based on flow values, is used when connecting ports

If Energy Efficient connection is active, then MDTools suggests Drill Diameter and Construction Port to reduce bend losses

MDTools® 945 What's New

Check for Velocity Hot Spots in Blocks





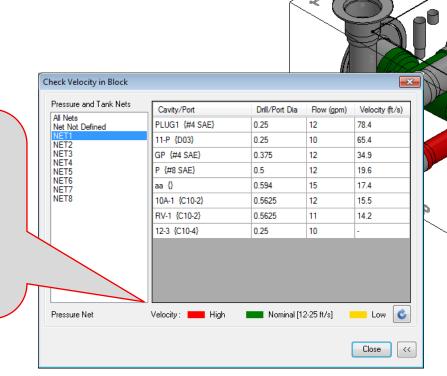
Check velocity for selected nets or for the complete manifold.

Each tank and pressure connection is color coded for oil velocities:

Red - High

Green - Nominal

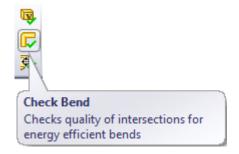
Yellow – Low

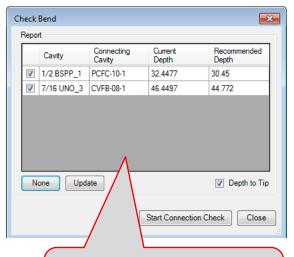




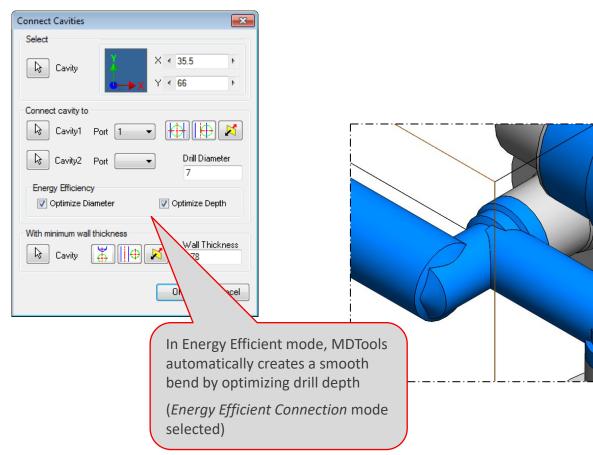
Energy Efficient Smooth Bends







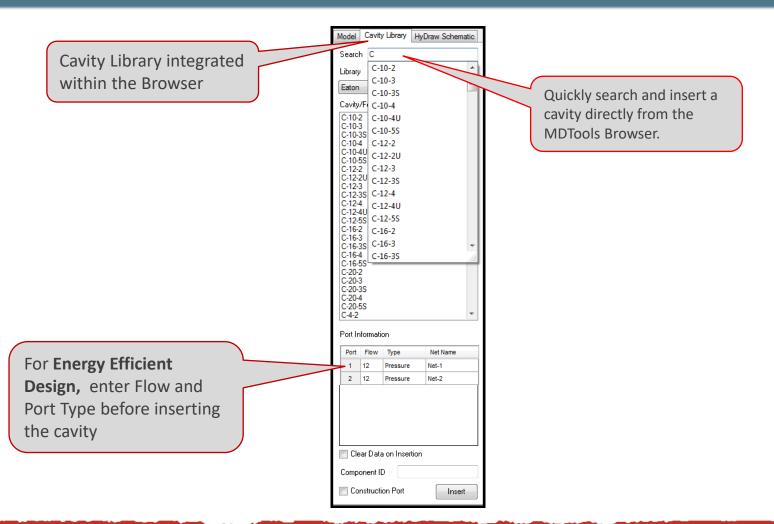
MDTools checks and smoothens bends in manifold at the end of the design process.



Integrated Browser

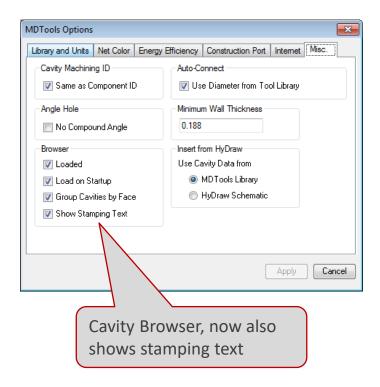
Cavity Library Integrated within the Browser

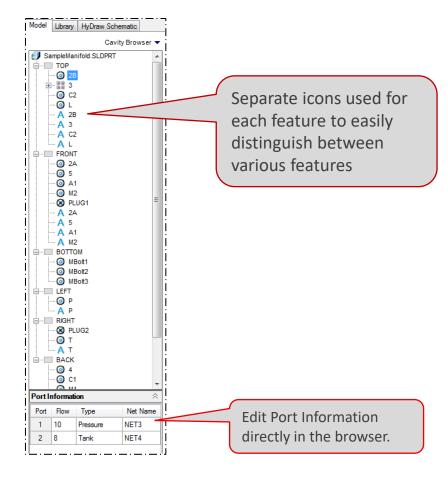




Cavity Browser Enhanced

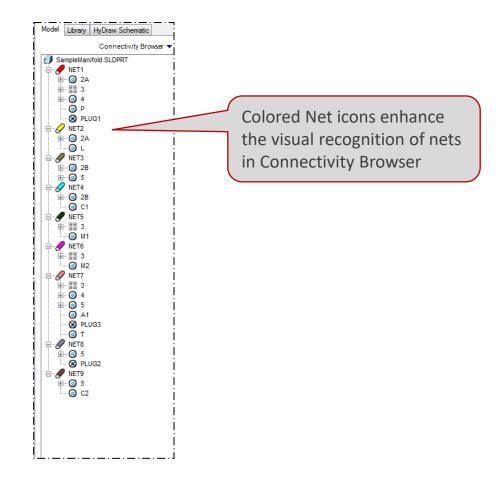






Connectivity Browser Enhanced



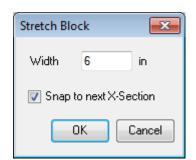


New Interactive Functionality

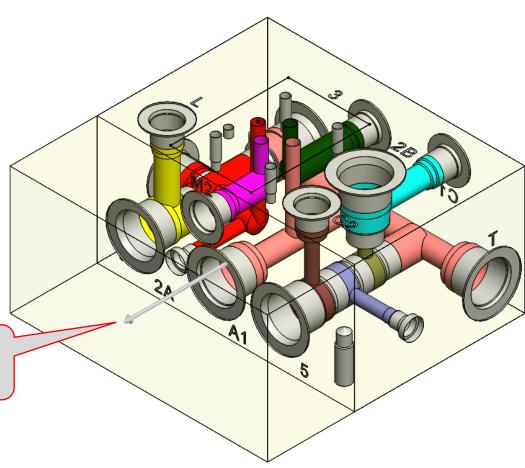
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Stretch Block



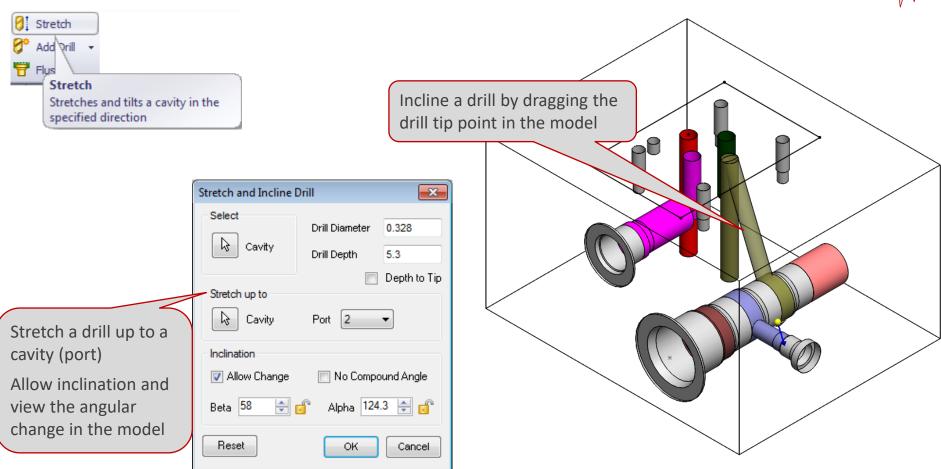


Stretch and change the block size by dragging a manifold face in the model.



Stretch and Incline Drill

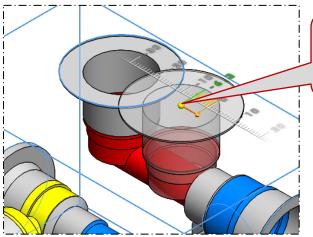




Move Cavity or Footprint - Dragging







Move a cavity in the model by dragging the center point of the selected cavity



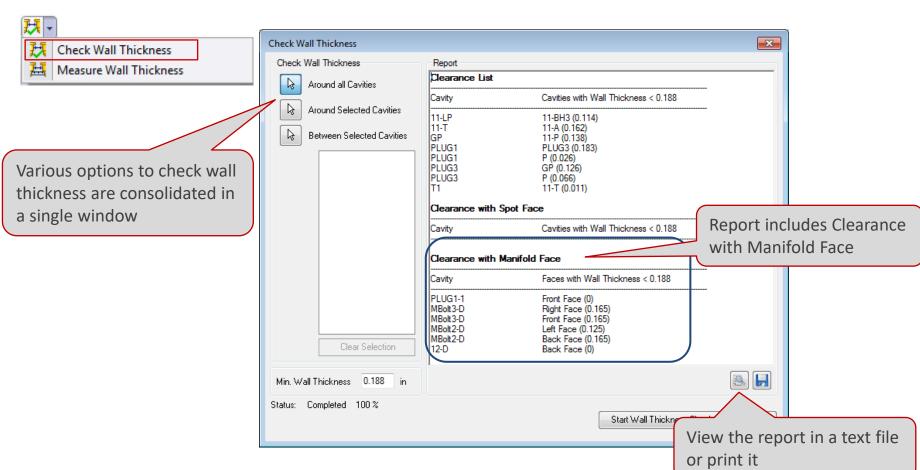
Move a cavity along an ordinate by grabbing one of the directional arrows

New Checking Functionality



Wall thickness Check - Consolidated





Miscellaneous

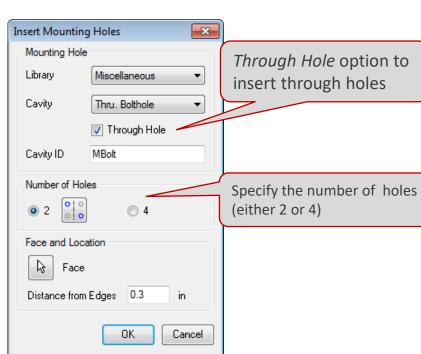


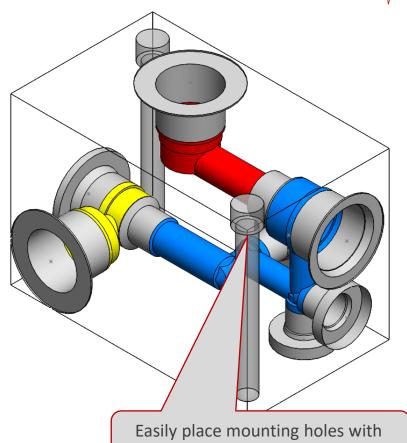


Mounting Holes with Preview





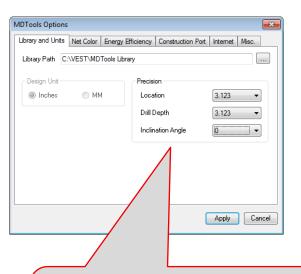




the help of a preview

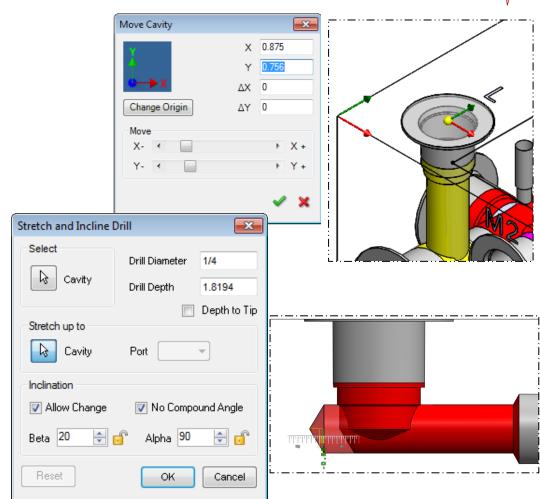
Set Manufacturing Precision





Manufacturing precision values defined at the start of the manifold design process are used by MDTools through out the design process.

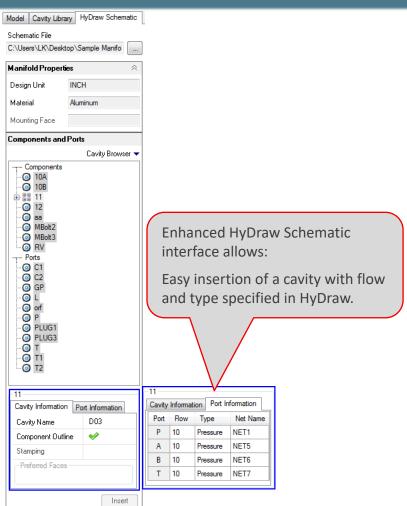
(Move Cavity, Stretch and Incline Drill)

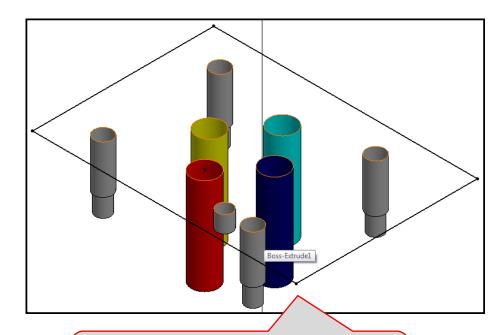


HyDraw to MDTools Integration

Port Info Captured thro' Schematic Interface







MDTools insertion of component outline and stamping text (if defined) with the cavity automatically.

Recap

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Contact VEST

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